L Number	Hits	Search Text	DB	Time stamp	
_ number	1471		USPAT;	2003/11/04 10:08	
	14/1	or speaker\$lindependent or	US-PGPUB		
		speaker\$1dependent			
_	9058	centroid	USPAT;	2003/11/04 10:06	
			US-PGPUB		
-	376388	offset	USPAT;	2003/11/04 10:06	
			US-PGPUB		
-	2353	linear adj transformation	USPAT;	2003/11/04 10:06	
			US-PGPUB	2222/21/21/21	
-	1076	(low\$ldimension\$5 adj space) or k\$1space	USPAT;	2003/11/04 12:10	
	1047		US-PGPUB	2003/11/04 10:07	
-	1247	maximum\$1likelihood	USPAT; US-PGPUB	2003/11/04 10:07	
	236593	estimat\$3 or re\$lestimat\$3	USPAT;	2003/11/04 10:08	
	230393	estimates of legiestimates	US-PGPUB	2008, 11, 01 20100	
_	2196	eigen\$1centroid or eigen\$1voice or	USPAT;	2003/11/04 10:08	
	2130	eigen\$1voice or eigen\$1value or	US-PGPUB		
		eigen\$1vector			
_	17223	(speech\$2 or voice) adj recogni\$4	USPAT;	2003/11/04 10:10	
			US-PGPUB		
_	9	(context\$1dependent or	USPAT;	2003/11/04 10:10	
		context\$lindependent or	US-PGPUB		
		speaker\$lindependent or			
		speaker\$1dependent) and centroid and			
		offset		0000/11/04 10 16	
-	1	, ( = = = = = , = = = <u>+</u> = = = = = =	USPAT;	2003/11/04 10:16	
		context\$lindependent or speaker\$lindependent or	US-PGPUB		
		speaker\$lindependent or   speaker\$ldependent) and (linear adj			
		transformation) and ((low\$ldimension\$5 adj			
		space) or k\$1space) and			
		maximum\$11ikelihood and (eigen\$1centroid			
		or eigen\$1voice or eigen\$1voice or			
		eigen\$1value or eigen\$1vector)		1	
_	7	(context\$1dependent or	USPAT;	2003/11/04 10:18	
		context\$lindependent or	US-PGPUB		
		speaker\$lindependent or			
		speaker\$1dependent) and (linear adj			
		transformation) and ((low\$1dimension\$5 adj			
		space) or k\$1space) and (eigen\$1centroid or eigen\$1voice or eigen\$1voice or		İ	
		eigen\$1voice or eigen\$1voice or eigen\$1voice or			
_	17		USPAT;	2003/11/04 10:22	
	<u> </u>	context\$lindependent or	US-PGPUB		
		speaker\$lindependent or		<u> </u>	
		speaker\$1dependent) and (linear adj		1	
		transformation) and (eigen\$1centroid or			
		eigen\$1voice or eigen\$1voice or			
		eigen\$1value or eigen\$1vector)	mam	00000EE /030102020	72 075
-	4360	704/203,206,222,230,231,232,233,236,237,238		, 2003255/0401212/2	13,215
	_	704/202 206 222 220 221 222 222 227 227	US-PGPUB	2803755/070197902	72 275
_	3	704/203,206,222,230,231,232,233,236,237,238 and (context\$1dependent or	US-PGPUB	1 50m35mm1 m40151537	13,213
		context\$lindependent or	03 49108		
_	41	1	2760PA246.250	,2803255/040127202	73,275
	1	speakeoatdepandependend oentroid and	US-PGPUB	, 20 <b>2,222,</b>	,
	<b>\</b>	¢dmhear\$adndependentmetion)			
_	5	3044203\$206dependent201,232,233,236,237,238	DSPAT46,250	,28 <b>03255/24</b> 0127212	73,275
		apdakem\$fdedeaddntliandr(adhear adj	US-PGPUB	1	
_	5	TOAMSGO: MAG; MAG; MAG; 230, 231, 232, 233, 236, 237, 238		,2603255/040127232	73,275
		and centroid and (eigen\$1centroid or	US-PGPUB		
		eigen\$1voice or eigen\$1voice or		0000/11/04 11:04	
-	19		USPAT	2003/11/04 11:24	
-	0		USPAT	2003/11/04 11:30 2003/11/04 11:30	
	1 3	6415257.URPN. 6343267.URPN.	USPAT USPAT	2003/11/04 11:30	
1 -	3		USPAT	2003/11/04 11:31	
l _	6		USPAT	2003/11/04 11:32	
_	2		USPAT	2003/11/04 11:35	
_	2		USPAT	2003/11/04 11:37	
	1	A company of the comp			

108984   identif\$7 and verif\$7   USPACPUB   Context\$1   (identif\$7 and verif\$7) and (context\$1   (identif\$7 and verif					
-   482	-	108984	identif\$7 and verif\$7	USPAT;	2003/11/04 11:38
ContextSldependent or speakerSlindependent or speakerSlindependent or speakerSlindependent or speakerSlindependent or speakerSlindependent or contextSlindependent or speakerSlindependent or contextSlindependent or speakerSlindependent or speake				US-PGPUB	
ContextSlindependent or speakerSlidependent or speakerSlidependent)	-	482	(identif\$7 and verif\$7) and	USPAT;	2003/11/04 11:40
ContextSlindependent or speakerSlidependent or speakerSlidependent)			(context\$1dependent or	US-PGPUB	
speaker\$lindependent or speaker\$lindependent or context\$lindependent or context\$lindependent or speaker\$ldependent or context\$lindependent or speaker\$ldependent or speaker\$lindependent or speaker\$li				{	
Speaker\$idependent)					
-					
Context\$1dependent or speaker\$1independent or speaker\$1independent or speaker\$1independent or speaker\$1independent or speaker\$1independent or context\$1independent or speaker\$1independent or speaker\$1 (linear adj transformation) and centroid (linear adj transformation) and centroid and (context\$1independent or speaker\$1dependent or speaker\$1de		1		HCDAT.	2002/11/04 11-42
context\$lindependent or speaker\$lindependent or speaker\$lindependent or re\$lestimat\$3 and maximum\$likelihood (identif\$7 and verif\$7) and (context\$lindependent or context\$lindependent or speaker\$lindependent or speaker\$lindependent or re\$lestimat\$3 and maximum\$likelihood (identif\$7 and verif\$7) and (USPAT; US-PGPUB (context\$lindependent or speaker\$lindependent or re\$lestimat\$3) and (linear adj transformation) (decision near2 tree near4 structure) uSPAT; US-PGPUB (decision near2 tree near4 structure) uSPAT; US-PGPUB (linear adj transformation) and centroid (linear adj transformation) uSPAT; US-PGPUB (linear adj transformation) and centroid uSPAT; US-PGPUB (linear adj transformation) uSPAT; USPAT; US-PGPUB (linear adj transformation) and centroid and (context\$lindependent or context\$lindependent or speaker\$lidependent or speaker\$lidependent or speaker\$lidependent or speaker\$lidependent or uSPAT; US-PGPUB (linear adj transformation) and centroid and (speech\$2 or voice) adj recogni\$4) USPAT; US-PGPUB (linear adj transformation) and centroid uSPAT; US-PGPUB (linear adj transformation) and centroid uSPAT; US-PGPUB (linear adj transformation) uSPAT; US-PGPUB (linear adj transformation) and centroid uSPAT; US-PGPUB (linear adj transformation) uSPAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid and (linear adj transformation) uSPAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid and centroid uspAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid and centroid uspAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid and centroid uspAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid uspAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid uspAT; US-PGPUB (low\$ldimension\$5 adj space) or x\$lspace) and centroid us	-	4			2003/11/04 11:42
speaker\$lindependent or speaker\$lindependent and (estimat\$3 or re\$lestimat\$3) and maximum\$llikelihood (identif\$7 and verif\$7) and (context\$1dependent or context\$1independent or speaker\$lindependent or context\$lindependent or speaker\$lindependent or speaker\$lindependen				US-PGPUB	
speaker\$idependent) and (estimat\$3 or re\$lestimat\$3) and maximum\$flikelihood (identif\$7 and verif\$7) and (context\$ledpendent or context\$lindependent or speaker\$idependent) and (estimat\$3 or re\$lestimat\$3) and (linear adj transformation) (decision near2 tree near4 structure) uSPAT; uS-PGPUB uSPAT; uS					
re\$lestimat\$3) and maximum\$1likelihood (identif\$7 and verif\$7) and verif\$7] and v		!			
16					
Context\$1dependent or speaker\$1independent or speaker\$1independent or speaker\$1independent or speaker\$1independent or speaker\$1dependent or speaker\$1dependent or speaker\$1dependent or speaker\$1dependent or speaker\$1independent or speaker\$1 decision near2 tree near4 structure			re\$lestimat\$3) and maximum\$1likelihood		
context\$lindependent or speaker\$lindependent or speaker\$lindependent or speaker\$lindependent) and (estimat\$3 or re\$lestimat\$3) and (linear adj transformation)	-	16		USPAT;	2003/11/04 11:47
context\$lindependent or speaker\$lindependent or speaker\$lindependent or speaker\$lindependent) and (estimat\$3 or re\$lestimat\$3) and (linear adj transformation)			(context\$1dependent or	US-PGPUB	
		ļ			
re\$lestimat\$3) and (linear adj transformation)   decision near2 tree near4 structure   USPAT;   USPACPUB   2003/11/04 11:51   USPAT;   USPACPUB					
transformation   decision near2 tree near4 structure		ļ			
254   decision near2 tree near4 structure					
Second   S		0.54			0000/11/04 11 40
Context   Content   Cont	-	254	decision nearz tree near4 structure		2003/11/04 11:48
Clinear adj transformation   US-PGPUB   USPAT;   US-PGPUB   USPA					/ /-
103	-	8			2003/11/04 11:51
Context\$1dependent or context\$1independent or speaker\$1independent or speaker\$1independent or speaker\$1independent or speaker\$2independent or speaker\$2independent or speaker\$2independent or speaker\$2independent or speaker\$3idependent)			(linear adj transformation)	US-PGPUB	
Context\$1 independent or context\$1 independent or speaker\$1 independe	-	103	(linear adj transformation) and centroid	USPAT;	2003/11/04 11:51
Context\$1 independent or context\$1 independent or speaker\$1 independe				US-PGPUB	
and (context\$ldependent or context\$lindependent or speaker\$lindependent or spe	_	6	(linear adi transformation) and centroid	<b>)</b>	2003/11/04 11:52
Context\$lindependent or speaker\$lindependent or speaker\$lindependent)	1			1	2000,11,01 11102
speaker\$lindependent or speaker\$lindependent or speaker\$ldependent)   USPAT;   USP				05 10105	
Speaker\$1dependent					
-   28					
and ((speech\$2 or voice) adj recogni\$4)   US-PGPUB   USPAT;   USPAT;   US-PGPUB   USPAT;		l			
- 38711 iterat\$5 and repeat\$3 - 246 (iterat\$5 and repeat\$3) and (estimat\$3 or re\$1estimat\$3) and maximum\$1likelihood (iterat\$5 and repeat\$3) and (estimat\$3 or re\$1estimat\$3) and maximum\$1likelihood and offset - 6 (iterat\$5 and repeat\$3) and re\$1estimat\$4 uspAT; us-PGPUB uspAT; (iterat\$5 and repeat\$3) and re\$1estimat\$4 uspAT; us-PGPUB uspAT; 2003/11/04 12:03 uspAT; us-PGPUB uspAT; 2003/11/04 12:03 uspAT; us-PGPUB uspAT; us-PGPU	_	28			2003/11/04 11:56
Comparison of the content of the c					
- 246 (iterat\$5 and repeat\$3) and (estimat\$3 or re\$1estimat\$3) and maximum\$1likelihood (Us-PGPUB	-	38711	iterat\$5 and repeat\$3	USPAT;	2003/11/04 11:57
re\$lestimat\$3) and maximum\$1likelihood (iterat\$5 and repeat\$3) and (estimat\$3 or re\$lestimat\$3) and maximum\$1likelihood and offset  6 (iterat\$5 and repeat\$3) and re\$lestimat\$4 USPAT; us-PGPUB and maximum\$1likelihood and offset  28 5864810.URPN. 28 5864810.URPN. 1 ((low\$ldimension\$5 adj space) or k\$1space) and maximum\$1likelihood and centroid (low\$ldimension\$5 adj space) or k\$1space) usPAT; us-PGPUB usPAT; and centroid and (linear adj transformation)  ((low\$ldimension\$5 adj space) or k\$1space) usPAT; us-PGPUB usPAT; u				US-PGPUB	
82	-	246	(iterat\$5 and repeat\$3) and (estimat\$3 or	USPAT;	2003/11/04 11:58
re\$lestimat\$3) and maximum\$1likelihood and offset  (iterat\$5 and repeat\$3) and re\$lestimat\$4 and maximum\$1likelihood and offset    Secondary of the content			re\$lestimat\$3) and maximum\$1likelihood	US-PGPUB	
re\$lestimat\$3) and maximum\$1likelihood and offset  (iterat\$5 and repeat\$3) and re\$lestimat\$4	_	82	(iterat\$5 and repeat\$3) and (estimat\$3 or	USPAT;	2003/11/04 11:59
- 6 (iterat\$5 and repeat\$3) and re\$lestimat\$4 and maximum\$1likelihood and offset US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT USPAT; US-PGPUB USPAT USPAT; US-PGPUB USPAT; U					
- 6 (iterat\$5 and repeat\$3) and re\$lestimat\$4 and maximum\$1likelihood and offset - 35 maximum\$1likelihood and re\$lestimat\$4 USPAT; US-PGPUB - 28 5864810.URPN 1 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; 2003/11/04 12:23 uS-PGPUB - 2 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; 2003/11/04 12:11 uS-PGPUB - 2 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; 2003/11/04 12:11 uS-PGPUB - 28 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; 2003/11/04 12:11 uS-PGPUB - 28 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; 2003/11/04 12:11 uS-PGPUB - 0 maximum\$11ikelihood and re\$lestimat\$4 EPO; JPO; DERWENT - 0 maximum\$11ikelihood and re\$lestimat\$4 EPO; JPO; DERWENT; IBM TDB - 1 6073096.pn. USPAT; 2003/11/04 12:23 DERWENT; IBM TDB - 2 849174.ap. USPAT; 2003/11/04 16:37 US-PGPUB					
and maximum\$1likelihood and offset  assimum\$1likelihood and re\$lestimat\$4  28	_	6		IISPAT.	2003/11/04 12:03
- 35 maximum\$11ikelihood and re\$1estimat\$4  - 28 5864810.URPN 1 ((low\$1dimension\$5 adj space) or k\$1space) and maximum\$11ikelihood and centroid - 2 ((low\$1dimension\$5 adj space) or k\$1space) and centroid and (linear adj transformation) - 28 ((low\$1dimension\$5 adj space) or k\$1space) and centroid - 28 ((low\$1dimension\$5 adj space) or k\$1space) and centroid - 28 ((low\$1dimension\$5 adj space) or k\$1space) and centroid - 30 maximum\$1likelihood and re\$1estimat\$4 - 4 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 5 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 6 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 7 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 8 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 9 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 1 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 1 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 1 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 1 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 1 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) or k\$1space) and centroid - 2 (low\$1dimension\$5 adj space) and centroid -	1				2005/11/04 12:05
- 28 5864810.URPN 1 ((low\$1dimension\$5 adj space) or k\$1space) uspat; 2003/11/04 12:11 uspat; 2003/11/04 12:23 uspat; 2003/11/04 uspat; 2003/11/04 uspat; 2003/11/04 uspat;	_	35			2003/11/04 12:22
- 28 5864810.URPN. 1 ((low\$1dimension\$5 adj space) or k\$1space) 2 ((low\$1dimension\$5 adj space) or k\$1space) 3 ((low\$1dimension\$5 adj space) or k\$1space) 4 ((low\$1dimension\$5 adj space) or k\$1space) 5 ((low\$1dimension\$5 adj space) or k\$1space) 6 (low\$1dimension\$5 adj space) or k\$1space) 7 (low\$1dimension\$5 adj space) or k\$1space) 8 ((low\$1dimension\$5 adj space) or k\$1space) 9 ((low\$1dimension\$5 adj space) or k\$1space) 1 (low\$1dimension\$5 adj space) or k\$1space) 1 (low\$1dimension\$5 adj space) or k\$1space) 2 (low\$1dimension\$5 adj space) 3 (low\$1dimension\$5 adj space) 4 (low\$1dimension\$5 adj space) 5 (low\$1dimension\$5 adj space) 6 (low\$1dimension\$5 adj space) 7 (low\$1dimension\$5 adj space) 8 (lop\$4 lop\$1 lop\$4 lop\$1 lop\$4 lop\$4 lop\$4 lop\$5 lop\$6			wayrwamiittivettiioog alig testestimatsa		2003/11/04 12:23
-     ((low\$ldimension\$5 adj space) or k\$lspace)   USPAT;   2003/11/04 12:11   2003/11/04 12:23   2003/11/04   2003/11/04   2003/11/04   2003/11/04   2003/11/04		1	E064010 UPDN		2002/11/04 12 22
and maximum\$11ikelihood and centroid ((low\$1dimension\$5 adj space) or k\$1space) and centroid and (linear adj transformation)  28 ((low\$1dimension\$5 adj space) or k\$1space) and centroid 0 ((low\$1dimension\$5 adj space) or k\$1space) and centroid 0 maximum\$1likelihood and re\$1estimat\$4  0 maximum\$1likelihood and re\$1estimat\$4  0 maximum\$1likelihood and re\$1estimat\$4  0 maximum\$1likelihood and re\$1estimat\$4  1 6073096.pn.  2 849174.ap.  2 003/11/04 12:11 US-PGPUB EPO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT; 2003/11/04 16:37 US-PGPUB USPAT; 2003/11/05 14:45	1 -	1			
- 2 ((low\$ldimension\$5 adj space) or k\$lspace) USPAT; uS-PGPUB transformation) - 28 ((low\$ldimension\$5 adj space) or k\$lspace) uSPAT; uS-PGPUB - 28 ((low\$ldimension\$5 adj space) or k\$lspace) uSPAT; uS-PGPUB - 0 maximum\$llikelihood and re\$lestimat\$4 EPO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; uS-PGPUB - 1 6073096.pn. USPAT; uS-PGPUB - 2 849174.ap. 2003/11/04 16:37	-	1			2003/11/04 12:11
and centroid and (linear adj transformation)  28 ((low\$1dimension\$5 adj space) or k\$1space) usPAT; 2003/11/04 12:11 us-PGPUB  0 maximum\$1likelihood and re\$1estimat\$4 EPO; JPO; DERWENT  0 maximum\$1likelihood and re\$1estimat\$4 EPO; JPO; 2003/11/04 12:23 DERWENT; IBM_TDB usPAT; us-PGPUB  1 6073096.pn. UsPAT; 2003/11/04 16:37 us-PGPUB  2 849174.ap. UsPAT; 2003/11/05 14:45					
transformation) ((low\$1dimension\$5 adj space) or k\$1space) and centroid  maximum\$1likelihood and re\$1estimat\$4  maximum\$1likelihood and re\$1estimat\$4  maximum\$1likelihood and re\$1estimat\$4  maximum\$1likelihood and re\$1estimat\$4  ePO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT;	-	2			2003/11/04 12:11
- 28 ((low\$1dimension\$5 adj space) or k\$1space) uSPAT; uS-PGPUB		1	, ,	US-PGPUB	
and centroid maximum\$1likelihood and re\$lestimat\$4  0 maximum\$1likelihood and re\$lestimat\$4  EPO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT;		1			
and centroid maximum\$1likelihood and re\$lestimat\$4  0 maximum\$1likelihood and re\$lestimat\$4  EPO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT;	-	28	((low\$1dimension\$5 adi space) or k\$1space)	USPAT;	2003/11/04 12:11
- 0 maximum\$1likelihood and re\$lestimat\$4 EPO; JPO; DERWENT EPO; JPO; DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; 2003/11/04 16:37 US-PGPUB USPAT; 2003/11/05 14:45				ł .	
DERWENT EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT; 2003/11/04 16:37 US-PGPUB USPAT; 2003/11/05 14:45	-	_ n		)	2003/11/04 12:23
- 0 maximum\$1likelihood and re\$lestimat\$4 EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB USPAT; 2003/11/04 16:37 US-PGPUB USPAT; 2003/11/05 14:45			The state of the s		
DERWENT; IBM_TDB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; USPAT; USPAT; USPAT; USPAT; USPAT;	_		maximum\$1likelihood and ro\$1ostimat\$4		2003/11/04 12:22
IBM_TDB			mayrwamittryerrinoor and restractinated	t	2003/11/04 12:23
- 1 6073096.pn. USPAT; 2003/11/04 16:37 US-PGPUB USPAT; 2003/11/05 14:45	1	1			
US-PGPUB - 2 849174.ap. USPAT; 2003/11/05 14:45		1 _	6073006		
- 2 849174.ap. USPAT; 2003/11/05 14:45	-	1	60/3096.pn.	ì	2003/11/04 16:37
	1	1			
US-PGPUB US-PGPUB	-	] 2	849174.ap.		2003/11/05 14:45
				US-PGPUB	